

INDUCTIVELY COUPLED DIRECT CONTACT TEST PROBE

ABSTRACT OF THE DISCLOSURE

[0027] A probe for measuring radio frequency / electromagnetic interference (RF/EMI) is used in combination with a spectrum analyzer or oscilloscope (measuring equipment) to measure and/or test for EMI in electronic equipment. The RF/EMI probe has high dielectric transformer isolation between the input of the measuring equipment and the circuit under test so as to prevent damaging the measuring equipment if a high voltage or current is encountered in the circuit being tested. The RF/EMI probe comprises a measurement tip connected to a shielded sense line, the shielded sense line is electro-magnetically coupled to a toroid forming a RF transformer, a high impedance termination load is connected to the shielded sense line, a shielded coaxial cable having a center conductor connected to a secondary winding on the toroid transformer, the shielded coaxial cable being adapted for connection to an input of the measuring equipment. The shield of the coaxial cable is continuous between the input connector of the measuring equipment and a shielded enclosure surrounding the toroid transformer. The coaxial cable may terminate in a RF connector, *e.g.*, BNC and the like, for quick connection to and disconnection from the measuring equipment.